IAP20 Rec'd PCT/PTO 23 JUN 2006

SEQUENCE LISTING

4

```
<110> NOVOCELL, INC.
     D'Amour, Kevin Allen
     Agulnick, Alan D.
     Baetge, Emmanuel E.
<120> DEFINITIVE ENDODERM
<130> CYTHERA.045NP
<140> Unknown
<141> 2006-06-23
<150> PCT/US2004/043696
<151> 2004-12-23
<150> 60/532004
<151> 2003-12-23
<150> 60/586566
<151> 2004-07-09
<150> 60/587942
<151> 2004-07-14
<160> 2
<170> FastSEO for Windows Version 4.0
<210> 1
<211> 1245
<212> DNA
<213> Homo sapiens
atgagcagcc cggatgcggg atacgccagt gacgaccaga gccagaccca gagcgcgctg 60
cccqcqqtqa tggccgggct gggcccctgc ccctgggccg agtcgctgag ccccatcggg 120
cgagccaagg gcgagtcccg tatccggcgg ccgatgaacg ctttcatggt gtgggctaag 240
gacgagegea ageggetgge geageagaat ceagacetge acaaegeega gttgageaag 300
atgctgggca agtcgtggaa ggcgctgacg ctggcggaga agcggccctt cgtggaggag 360
gcagagcggc tgcgcgtgca gcacatgcag gaccacccca actacaagta ccggccgcgg 420
cggcgcaagc aggtgaagcg gctgaagcgg gtggagggcg gcttcctgca cggcctggct 480
gagccgcagg cggccgcgct gggccccgag ggcggccgcg tggccatgga cggcctgggc 540
ctccaqttcc ccgagcaggg cttccccgcc ggcccgccgc tgctgcctcc gcacatgggc 600
ggccactacc gcgactgcca gagtctgggc gcgcctccgc tcgacggcta cccgttgccc 660
acgcccgaca cgtccccgct ggacggcgtg gaccccgacc cggctttctt cgccgccccg 720
atgcccgggg actgcccggc ggccggcacc tacagctacg cgcaggtctc ggactacgct 780
ggcccccgg agcctcccgc cggtcccatg cacccccgac tcggcccaga gcccgcgggt 840
ccctcgattc cgggcctcct ggcgccaccc agcgcccttc acgtgtacta cggcgcgatg 900
ggctcgcccg gggcgggcg cgggcgcggc ttccagatgc agccgcaaca ccagcaccag 960
caccagcacc agcaccaccc cocgggcccc ggacagccgt cgcccctcc ggaggcactg 1020
ccctgccggg acggcacgga ccccagtcag cccgccgagc tcctcgggga ggtggaccgc 1080
acggaatttg aacagtatct gcacttcgtg tgcaagcctg agatgggcct cccctaccag 1140
gggcatgact ccggtgtgaa tctccccgac agccacgggg ccatttcctc ggtggtgtcc 1200
gacgccagct ccgcggtata ttactgcaac tatcctgacg tgtga
                                                                1245
```

<211> 414 <212> PRT <213> Homo sapiens Met Ser Ser Pro Asp Ala Gly Tyr Ala Ser Asp Asp Gln Ser Gln Thr Gln Ser Ala Leu Pro Ala Val Met Ala Gly Leu Gly Pro Cys Pro Trp 20 Ala Glu Ser Leu Ser Pro Ile Gly Asp Met Lys Val Lys Gly Glu Ala 40 Pro Ala Asn Ser Gly Ala Pro Ala Gly Ala Ala Gly Arg Ala Lys Gly 55 Glu Ser Arg Ile Arg Arg Pro Met Asn Ala Phe Met Val Trp Ala Lys 70 75 Asp Glu Arg Lys Arg Leu Ala Gln Gln Asn Pro Asp Leu His Asn Ala 90 85 Glu Leu Ser Lys Met Leu Gly Lys Ser Trp Lys Ala Leu Thr Leu Ala 105 110 100 Glu Lys Arg Pro Phe Val Glu Glu Ala Glu Arg Leu Arg Val Gln His 125 120 115 Met Gln Asp His Pro Asn Tyr Lys Tyr Arg Pro Arg Arg Arg Lys Gln 135 140 Val Lys Arg Leu Lys Arg Val Glu Gly Gly Phe Leu His Gly Leu Ala 150 155 Glu Pro Gln Ala Ala Ala Leu Gly Pro Glu Gly Gly Arg Val Ala Met 165 170 Asp Gly Leu Gly Leu Gln Phe Pro Glu Gln Gly Phe Pro Ala Gly Pro 185 Pro Leu Leu Pro Pro His Met Gly Gly His Tyr Arg Asp Cys Gln Ser 200 205 Leu Gly Ala Pro Pro Leu Asp Gly Tyr Pro Leu Pro Thr Pro Asp Thr 215 220 Ser Pro Leu Asp Gly Val Asp Pro Asp Pro Ala Phe Phe Ala Ala Pro 235 Met Pro Gly Asp Cys Pro Ala Ala Gly Thr Tyr Ser Tyr Ala Gln Val 250 245 Ser Asp Tyr Ala Gly Pro Pro Glu Pro Pro Ala Gly Pro Met His Pro 265 Arg Leu Gly Pro Glu Pro Ala Gly Pro Ser Ile Pro Gly Leu Leu Ala 280 Pro Pro Ser Ala Leu His Val Tyr Tyr Gly Ala Met Gly Ser Pro Gly 295 Ala Gly Gly Gly Arg Gly Phe Gln Met Gln Pro Gln His Gln His Gln 315 310 His Gln His Gln His Pro Pro Gly Pro Gly Gln Pro Ser Pro Pro 330 325 Pro Glu Ala Leu Pro Cys Arg Asp Gly Thr Asp Pro Ser Gln Pro Ala 345 Glu Leu Leu Gly Glu Val Asp Arg Thr Glu Phe Glu Gln Tyr Leu His 360 365 Phe Val Cys Lys Pro Glu Met Gly Leu Pro Tyr Gln Gly His Asp Ser 380 375 Gly Val Asn Leu Pro Asp Ser His Gly Ala Ile Ser Ser Val Val Ser 390 395

<210> 2

2

410

Asp Ala Ser Ser Ala Val Tyr Tyr Cys Asn Tyr Pro Asp Val

405